WO 2004/041844

WE CLAIM:

		1.	A method for identifying a compound that modulates cellular		
2	proliferation, the method comprising the steps of:				
3		(i) cor	ntacting the compound with a peptide 35, 38, 40, or 41 binding		
4	partner; and				
5	•	(ii) de	termining the functional effect of the compound upon the binding		
6	partner polyp	eptide.			
1		•			
2	in vitro.	2.	The method of claim 1, wherein the functional effect is measured		
L	in viiro.				
1		3.	The method of claim 2, wherein the functional effect is a physical		
2	effect.		•		
1		4			
1	1	4.	The method of claim 3, wherein the functional effect is determined		
2	by measuring ligand binding to the binding partner polypeptide.				
1	•	5.	The method of claim 2, wherein the functional effect is a chemical		
2	effect.				
1		6.	The method of claim 1, wherein the binding partner polypeptide is		
2	expressed in a	a eukary	votic host cell or cell membrane.		
1		7.	The method of claim 6, wherein the functional effect is a physical		
2	effect.				
1		8.	The method of claim 7, wherein the functional effect is determined		
2	by measuring	ligand	binding to the binding partner polypeptide.		
1		9.	The method of claim 6, wherein the functional effect is a chemical		
2	or phenotypic		The method of claim o, wherein the functional effect is a chemical		
	r-comon, pro				
l		10.	The method of claim 9, wherein the chemical or phenotypic effect		
2	is determined	by mea	suring cellular proliferation.		
		11.	The method of claims 10 and a state of the s		
-)	measured by		The method of claim 10, wherein the cellular proliferation is		
-	mountary (moa y III }	4 JUL DINA SVIUDESIS OF HIIOTESCENT marker dilitton		

PCT/US2003/034669

2	3TJ the midina	12.	The method of claim 11, wherein DNA synthesis is measured by
2	H mymidme	mcorpe	oration, BrdU incorporation, or Hoescht staining.
1 2	from the grou	13. ip consi	The method of claim 11, wherein the fluorescent marker is selected sting of a cell tracker dye or green fluorescent protein.
1 2	proliferation.	14.	The method of claim 1, wherein modulation is inhibition of cellular
1 2	cell proliferat	15.	The method of claim 1, wherein modulation is inhibition of cancer
1		16.	The method of claim 6, wherein the host cell is a cancer cell.
1 2	prostate, colo	17. on, or lu	The method of claim 16, wherein the cancer cell is a breast, ng cancer cell.
1 2	cell line.	18.	The method of claim 16, wherein the cancer cell is a transformed
1		19.	The method of claim 18, wherein the transformed cell line is A549
1 2	mutant.	20.	The method of claim 16, wherein the cancer cell is p53 null or
1		21.	The method of claim 16, wherein the cancer cell is p53 wild-type.
1		22.	The method of claim 1, wherein the polypeptide is recombinant.
1		23 .	The method of claim 1, wherein the compound is an antibody.
1 2	molecule.	24.	The method of claim 1, wherein the compound is an antisense
1 2	molecule.	25 .	The method of claim 1, wherein the compound is a small organic
1		26 .	The method of claim 1, wherein the compound is a peptide.

1		21.	The method of claim 26, wherein the peptide is circular.
1		28.	A method of modulating cellular proliferation in a subject, the
2	method comp	rising th	e step of administering to the subject a therapeutically effective
3	amount of a co	ompoun	d identified using the method of claim 1.
1		29.	The method of claim 28, wherein the subject is a human.
1		30.	The method of claim 29, wherein the subject has cancer.
1		31.	The method of claim 28, wherein the compound is an antibody.
1		32.	The method of claim 28, wherein the compound is an antisense
2	molecule.		
1		33.	The method of claim 28, wherein the compound is a small organic
2	molecule.		
1		34.	The method of claim 28, wherein the compound is a peptide.
1	• • •	35.	The method of claim 34, wherein the peptide is circular.
1		36.	The method of claim 28, wherein the compound inhibits cancer cell
2	proliferation.		
1		37.	A peptide comprising peptide 35, 38, 40, or 41.